

NAME : FAROOQ AHMED

ID : 14267

Date: _____

NAME: FAROOQ AHMED
ID: 24267.

QUESTION NO: 01.

A: REQUIREMENTS:

The requirements are the descriptions of the system services and constraints that are generated during the requirements engineering process.

EXAMPLE:

- In controlling electrical devices using printer port.
- 1- System shall allow users through appreciate signals to switch the connected devices ON/OFF.
 - 2- System shall allow users to interface with devices through entering the value of bit number.
 - 3- Devices to be switched with the system currently generate values and otherwise it should disabled to generate any current to give value.
 - 4- System must be used as a switching devices where computer

Date: _____

NAME: FAROOQ AHMED
ID: 14267.

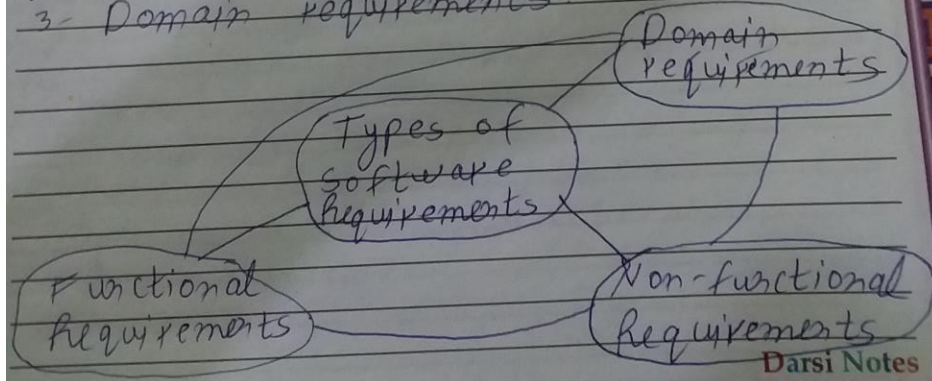
- are available.
- 5- Although this system shall allow users to use this for also controlling traffic lights.
 - 6- Allow users for power source controlling.

QUESTION NO: 02.

A: TYPES OF SOFTWARE REQUIREMENTS.

A software requirements can be of 3 types.

- 1- Functional requirements
- 2- Non-functional requirements
- 3- Domain requirements



Date: _____

NAME: FAROOQ AHMED
ID: 21267.

FUNCTIONAL REQUIREMENTS.

These are the requirements that the end user specifically demands as basic facilities that the system should offer.

All these functionalities needs to be necessary incorporated into the system, for e.g.

In a hospital management system, a doctor should be able to retrieve the information of his patients. There are many ways like natural language etc.

NON-FUNCTIONAL REQUIREMENTS.

These are basically the quality constraints that the system must satisfy according to the project contract, like:

portability, security, maintainability, reliability, performance, reusability, flexibility etc.

Interface constraints

Performance constraints

Operating constraints

Economic etc.

Date: _____
NAME: FAROOQ AHMED
ID: 14267.

DOMAIN REQUIREMENTS.

Domain requirements are the requirements which are characteristics of a particular category or domain of projects. For instance, in an academic software that maintains records of a school or college, the functionality of being able to access the list of faculty and list of students of each grade.

QUESTION NO: 03.

A: SYSTEM REQUIREMENTS ENGINEERING.

System requirements are all of the requirements at the system level that describe the functions which system as a whole should fulfil to satisfy the stakeholders needs and requirements and are expressed in an appropriate combination of textual statements,

Darsi Notes

NAME: FAROOQ AHMED
ID: 14267

views and non-functional requirements. The levels of safety, security, reliability etc. form the basis of system architecture and design activities, integration and verification.

SOFTWARE REQUIREMENT ENGINEERING

Software specification or requirements engineering is process of understanding and defining what services are required and identifying the constraints on these services. Requirements engineering processes ensures your software will meet the user expectations and ending up with a high quality software. Software requirements engineering is specifically applying requirements engineering techniques to software projects.

Date: _____

NAME: FAROOQ AHMED
ID: 14267

QUESTION NO: 04.

A: NEEDS:

- 1- Requirements negotiation is an iterative process through which stakeholders make tradeoff between:
 - a- requested system functions.
 - b- the capabilities of existing or envisioned technology.
 - c- the delivery schedule.
 - d- the cost.
- 2- Requirements engineering is a fundamental part of the software engineering process, when the stakeholders of software project disagree on requirements, requirement negotiation methods can be used to reach that agreement, this avoids rework and extra costs.
- 3- Due to iterative approach, requirements are eliminated, combined and/or modified so that each party achieves some measures of satisfaction.

Date: _____

NAME: FAROOQ AHMED
ID: 124267

QUESTION NO: 05.

A:

